



AGU 2015 FALL MEETING

NASA Earth Science Division, Applied Sciences Program Summary of Affiliated Sessions and Events

This summary includes the events and sessions led by people affiliated with the NASA Applied Sciences Program as well as several important Earth Science Division-related sessions. See the AGU website or app for specific presentations and posters.

Events are arranged by day so you do not have to bring the entire list to the conference every day. Hyperwall talks and flash talks in the exhibit hall are grouped first, listed chronologically. They are followed by the poster sessions, oral sessions, and town halls as a group. The titles of all poster sessions, oral sessions, and town halls are all active hyperlinks that will pull up each session's AGU conference webpage in a web browser.

In addition to these sessions, AGU has again organized many talks and posters into interdisciplinary SWIRLS. Much like the Applied Sciences Program itself, SWIRLS cut across multiple disciplines to address a particular theme. The *Science*, *Society*, *Sustainability* and the *Extreme Events and Natural Hazards* SWIRLS address themes with many papers that should be interesting to the Program.

Three special events will also be of interest to the Earth Science applications community. On Monday night in the Exhibition Hall, the division directors of NASA Earth Science, Planetary Science, and Heliophysics will host an opening night reception with three talks. On Wednesday night, Ignite takes over the Infusion Lounge in San Francisco, and later that night, the DEVELOP program will host its dinner.

See you at AGU!

ENLIGHTEN US, BUT MAKE IT QUICK!
WEDNESDAY DECEMBER 16 | 6 – 8:30PM | INFUSION LOUNGE





MONDAY, 14 DECEMBER 2015

10:30 – PRESS CONFERENCE ROOM, MOSCONE WEST 3000

Global Air Quality: The Impacts of People and Cities

Speakers: (AQAST) Bryan Duncan, Anne Thompson, Russ Dickerson

08:00 - 10:00 MOSCONE WEST- 3010

A11O Air Quality Research: From Emissions to Impact I

Conveners: Gabriele Pfister (AQAST), Ann Marie Carlton, Gregory Frost, Patrick Reddy

08:00 - 12:20 MOSCONE SOUTH- POSTER HALL

GC11H The NASA Public Health and Air Quality Application Program: Integrating Remote Sensing, Spatial Analysis, and Modeling for the Analysis of Environmentally Driven Human Health Risks I Posters

Conveners: Sue Estes, Dale Quattrochi, Ali Omar, Cory Morin

08:00 - 12:20 MOSCONE SOUTH- POSTER HALL

A11M The Impacts of Energy Production and Use on Air Quality and Climate I Posters

Conveners: Drew Gentner, Jessica Gilman, Allen Robinson, Colm Sweeney

10:20 - 12:20 MOSCONE WEST- 3010

A12A Air Quality Research: From Emissions to Impact II

Conveners: Gabriele Pfister (AQAST), Ann Marie Carlton, Gregory Frost, Patrick Reddy

12:30 - 13:30 MOSCONE WEST- 2010

TH13C NASA's Ice, Cloud and Land Elevation Satellite-2 (ICESat-2) Mission Town Hall

Conveners: Sabrina Delgado Arias, Tom Neumann, Molly Brown, Vanessa Escobar, Michael Jasinski

12:30 - 13:30 MOSCONE WEST- 2004

TH13H USDA Town Hall on Climate Change, Global Food Security and the U.S. Food System Report

Conveners: Molly Brown, Margaret Walsh, Peter Backlund, Lawrence Buja

12:30 - 13:30 MOSCONE WEST- 2005

TH13I The 2017-2027 National Academies' Decadal Survey for Earth Science and Applications from Space

Conveners: Art Charo

13:40 - 15:40 MOSCONE WEST- 3006

GC13L The NASA Public Health and Air Quality Application Program: Integrating Remote Sensing, Spatial Analysis, and Modeling for the Analysis of Environmentally Driven Human Health Risks II

Conveners: Sue Estes, Dale Quattrochi, Ali Omar, Cory Morin

13:40 - 15:40 MOSCONE WEST- 3010

A13F Air Quality Research: From Emissions to Impact III

Conveners: Gabriele Pfister (AQAST), Ann Marie Carlton, Gregory Frost, Patrick Reddy

16:00 - 18:00 MOSCONE WEST- 3010

A14A Air Quality Research: From Emissions to Impact IV

Conveners: Gabriele Pfister (AQAST), Ann Marie Carlton, Gregory Frost, Patrick Reddy



18:15 - 19:15 MOSCONE WEST - 2010

TH15A Challenges and Opportunities for Research in Earth Surface and Interior at NASA

Conveners: James L Davis, Louise H Kellogg, and Benjamin R Phillips

18:15 - 19:15 MOSCONE SOUTH- 104

TH15B A Conversation with DJ Patil, Chief Data Scientist of the United States

Conveners: Brooks Hanson, DJ Patil, Mohan Ramamurthy, Erin Robinson

18:15 - 19:15 MOSCONE WEST- 2002

TH15H NOAA's Research And Development Enterprise

Convener: Richard Spinrad

18:00 - 20:00 RECEPTION – EXHIBIT HALL – HYPERWALL

NASA's Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change – *Michael Freilich*

Recent Discoveries in Planetary Science – *Jim Green*

Highlights of Heliophysics – *Steven Clarke*



TUESDAY, 15 DECEMBER 2015

09:45 - 10:00 EXHIBIT HALL - HYPERWALL

NASA and Wildfires: Science and Technology Supporting the Nation – *Vince Ambrosia*

11:15 - 11:30 EXHIBIT HALL - HYPERWALL

NASA Global Climate Observations: Discover How Satellites See Climate Change – *Jack Kaye*

15:45 - 16:00 EXHIBIT HALL - HYPERWALL

NASA's Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change – *Mike Freilich*

08:00 - 12:20 MOSCONE SOUTH- POSTER HALL

A21A Air Quality Research: From Emissions to Impact V Posters

Conveners: Gabriele Pfister (AQAST), Ann Marie Carlton, Gregory Frost, Patrick Reddy

10:20 - 12:20 MOSCONE WEST- 3014

GC22D Research Results from the Multiseason, Multiyear Western U.S. NASA Remote Measurement Science Campaign I

David R Thompson, Simon J Hook, Robert O Green, Morgan L Cable (HysplRI)

13:40 - 14:40 MOSCONE WEST- 2022-2024

GC23M Schneider Lecture

Conveners: David Cairns, Rong Fu, Ellen Mosley-Thompson, Malcolm Hughes, Ali Omar

13:40 - 18:00 MOSCONE SOUTH - POSTER HALL

GC23K Research Results from the Multiseason, Multiyear Western U.S. NASA Remote Measurement Science Campaign II Posters

David R Thompson, Simon J Hook, Robert O Green, Morgan L Cable (HysplRI)

14:40 - 15:40 MOSCONE WEST- 2022-2024

GC23N Tyndall History of Global Environmental Change Lecture

Conveners: David Cairns, Rong Fu, Ellen Mosley-Thompson, Malcolm Hughes, Ali Omar

18:15 - 19:15 MOSCONE WEST- 2006

TH25F Earth Observations and Global Water Security

Conveners: Richard Lawford, Brad Doorn, Jerad Bales, Christine Lee

18:15 - 19:15 MOSCONE WEST- 2009

TH25H NASA Mission Applications and the Early Adopter Program

Conveners: Vanessa Escobar, Christine Bonniksen, Margaret Srinivasan, John Murray, Christine Lee

18:15 - 19:15 MOSCONE WEST- 2016

TH25E Building Science Knowledge and Meeting Climate Change Challenges: US Global Change Research Program and the National Climate Assessment

Conveners: Glynnis Lough, Julie Morris

18:15 - 19:15 MOSCONE WEST- 2007

TH25K U.S. Group on Earth Observations (USGEO) Town Hall

Conveners: Jason Gallo, Timothy Stryker



WEDNESDAY, 16 DECEMBER 2015

09:00 – PRESS CONFERENCE ROOM, MOSCONE WEST 3000

Future Himalayan seismic hazards: Insights from earthquakes in Nepal

Speakers: Dalia Kirschbaum, Jeff Kargel, Dan Shugar, Oliver Korup, Eric Fielding

10:15 - 10:30 EXHIBIT HALL – HYPERWALL

Disaster Management – *David Green*

10:30 - 10:45 EXHIBIT HALL – HYPERWALL

NASA's Earth Observation Capabilities: Meeting the Challenges of Climate and Environmental Change – *Michael Freilich*

14:30 - 14:37 EXHIBIT HALL – NASA BOOTH – FLASH TALK

Training the World to Use NASA data with ARSET – *Brock Blevins*

15:30 - 15:45 EXHIBIT HALL – HYPERWALL

NASA Global Climate Observations: Discover How Satellites See Climate Change – *Jack Kaye*

16:15 - 16:30 EXHIBIT HALL – HYPERWALL

SERVIR: Connecting Space to Village – *Eric Anderson*

08:00 - 12:20 MOSCONE SOUTH- POSTER HALL

PA31A Best Practices for Improving Workforce Skills to Use Earth Observations in Environmental Management and Policy Posters

Conveners: Daniel Irwin, Lauren Childs-Gleason, Ana Prados, Nancy Searby

12:30 - 13:30 MOSCONE WEST- 2003

TH33D NASA Earth Science Division Town Hall - Repeated Thursday at 12:30

Conveners: Jack Kaye, Mike Freilich, Peg Luce, Lawrence Friedl, George Komar, Eric Ianson, Patricia Jacobberger-Jellison

18:00 - 20:00 INFUSION LOUNGE – 124 ELLIS STREET, SAN FRANCISCO





THURSDAY, 17 DECEMBER 2015

11:00 - 11:15 EXHIBIT HALL - HYPERWALL

NASA Health and Air Quality Applications – *John Haynes*

11:15 - 11:30 EXHIBIT HALL - HYPERWALL

Stratospheric Ozone Recovery / World Avoided – *Rich Eckman*

13:50 - 13:57 EXHIBIT HALL - NASA BOOTH - FLASH TALK

How Dry is Dry? Assessing Drought Severity in the Navajo Nation – *Vickie Ly*

14:10 - 14:17 EXHIBIT HALL - NASA BOOTH - FLASH TALK

Rooting Out the Problem: Mesquite Trees' Effect on Estuary Health – *Georgina Crepps*

14:20 - 14:27 EXHIBIT HALL - NASA BOOTH - FLASH TALK

The Hole Ozone Story – *Rich Eckman*

15:30 - 15:45 EXHIBIT HALL - HYPERWALL

NASA Technology, Observations, and Models Supporting Wildland Fire Science and Applications
– *Amber Soja*

12:30 - 13:30 LOCATION TBD

TH33D NASA Earth Science Division Town Hall – Repeat of Wednesday Session

Conveners: Jack Kaye, Mike Freilich, Peg Luce, Lawrence Friedl, George Komar, Eric Ianson, Patricia Jacobberger-Jellison

12:30 - 13:30 MOSCONE WEST - 2016

TH13G NASA's Ocean Biology and Biogeochemistry Program's pre-Decadal Survey report

Conveners: Anastasia Romanou, David Schimel, and Paula S Bontempi

12:30 - 13:30 MOSCONE WEST - 2010

TH43E NASA Sea Level Change Team Town Hall

Conveners: Steven Nerem and Carmen Boening

12:30 - 13:30 MOSCONE WEST- 2003

TH43J What is new in NSF Geosciences?

Conveners: Roger Wakimoto, Donald Wuebbles



FRIDAY, 18 DECEMBER 2015

08:00 - 10:00 MOSCONE WEST- 3022

H51T Remote Sensing Applications for Water Resources Management I

Conveners: John Bolten, Forrest Melton, Venkataraman Lakshmi, Christine Lee

08:00 - 10:00 MOSCONE SOUTH- 309

NH51G Natural Hazards Research and Mitigation: Global Navigation Satellite System, Data Diversity, and Emerging Technology II

Conveners: Tony Song, Karen Moe, Valerie Sahakian, Udaysankar Nair, Ramesh Singh, David Green

08:00 - 12:20 MOSCONE SOUTH- POSTER HALL

PA51C Valuing Tradeoffs in Natural Resources Using Geospatial Information II Posters

Conveners: Francoise Pearlman, Molly Macauley, Richard Bernknopf, Lawrence Friedl

10:20 - 12:20 MOSCONE WEST- 3022

H52E Remote Sensing Applications for Water Resources Management II

Conveners: John Bolten, Forrest Melton, Venkataraman Lakshmi, Christine Lee

13:40 - 15:40 MOSCONE SOUTH- 103

PA53B Valuing Tradeoffs in Natural Resources Using Geospatial Information I

Conveners: Francoise Pearlman, Molly Macauley, Richard Bernknopf, Lawrence Friedl

13:40 - 18:00 MOSCONE SOUTH- POSTER HALL

H53G Remote Sensing Applications for Water Resources Management III Posters

Conveners: John Bolten, Forrest Melton, Venkataraman Lakshmi, Christine Lee